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Notice of Allowability

Application No.

10/713,031

Examiner

Iraj A. Mohandesi

Applicant(s)

YOSHIDA ET AL.

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/20/05 74
2. ☒ The allowed claim(s) is/are 1,2,4,5 and 7-15.
3. ☒ The drawings filed on ¹⁷~~07~~ November 2003 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. Claims 3 and 6 are canceled.
2. New claims 13-15 have presented no new matter has been added.
3. Claims 1,2,4,5 and 7 have amended. The allowable subject matter of objected claims 3,7,10 have been rewritten in independent form as amended claims 1,7 and 10 .

The objection to claim 4 and 5 has been withdrawn.

Allowable Subject Matter

4. The following is an examiner's statement of reasons for allowance:

Regarding claim 1 ,the prior art of the record in particular Lading 6,320,272 does not teach or suggest a supporting structure for a wind power generator' and a laser aero vane mounted on said wind power generator or located near said wind power generator to controls at least one of yaw angle and pitch angle of said wind power generator 'based on the direction and the velocity of the wind observed by said laser aero vane, including inter alia , said wind power generator by emitting a laser beam ahead of said wind power generator detecting scattered waves of the laser beam scattered by an aerosol located at any position distant from said wind power generator at an arbitrary distance and that floats in the air and moves on the wind at the same speed as the wind and detecting a phase difference between the laser beam and the scattered waves in terms of the doppler effect

5. Regarding claim 7, the prior art of the record in particular Lading 6,320,272 does not teach or suggest a supporting structure for a wind power generator' and a laser aero vane mounted on said wind power generator or located near said wind power generator

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including inter alia, and an output-smoothing device connected to said wind power generator, wherein said laser aero vane observes direction and velocity of wind blowing toward said wind power generator adjustment of power produced by said wind power generator is calculated in advance of arrival of the wind observed by said laser aero vane based on results obtained by observation by said laser aero vane. power output of the wind power generation system including said wind power generator and said output-smoothing device is controlled based on conditions obtained by calculation. power output of the wind power generation system is stabilized. and said output-smoothing device controls power output so that power output fluctuation of said wind power generation system is cancelled when the wind observed by said laser aero vane arrives at said wind power generator.

6. Regarding claim 10, the prior art of the record in particular Lading 6,320,272 does not teach or suggest a supporting structure for a wind power generator' and a laser aero vane mounted on said wind power generator or located near said wind power generator to controls at least one of yaw angle and pitch angle of said wind power generator 'based on the direction and the velocity of the wind observed by said laser aero vane, including inter alia , an emitting a laser beam ahead of said wind power generator, detecting scattered waves of the laser beam scattered by an aerosol located at any position distant from said wind power generator, at an arbitrary distance, and that floats in the air and moves on the wind at the same speed as the wind, and detecting a phase difference between the laser beam and the scattered waves in terms of the Doppler effect.

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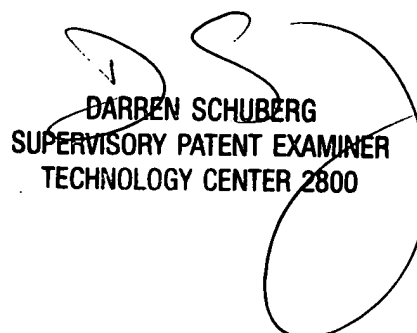
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iraj A. Mohandesi whose telephone number is 571-272-2028. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IM May 3, 2005


DARREN SCHUBERG
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800